



**FIG. 1**

USAGE SCENARIO

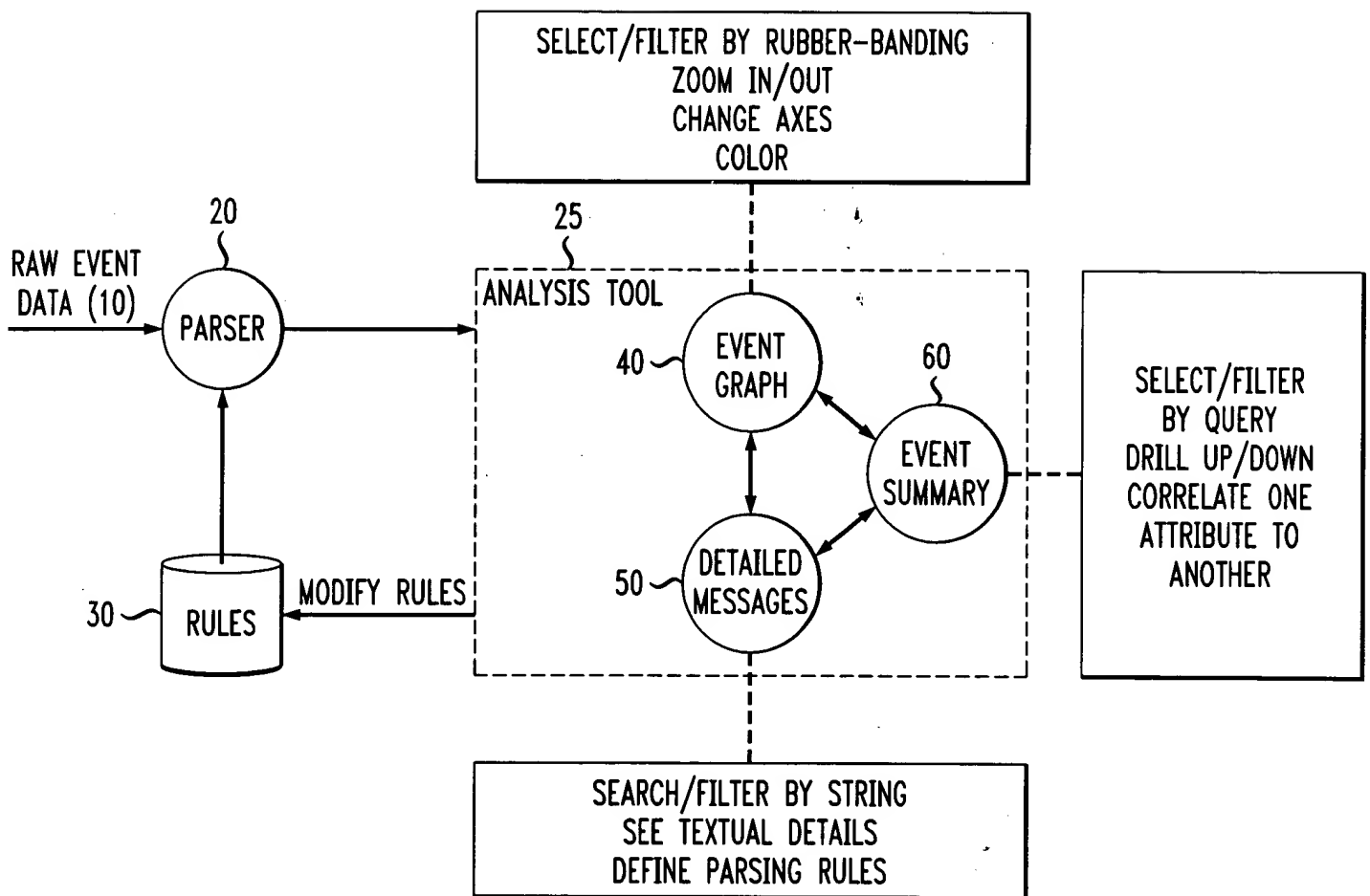
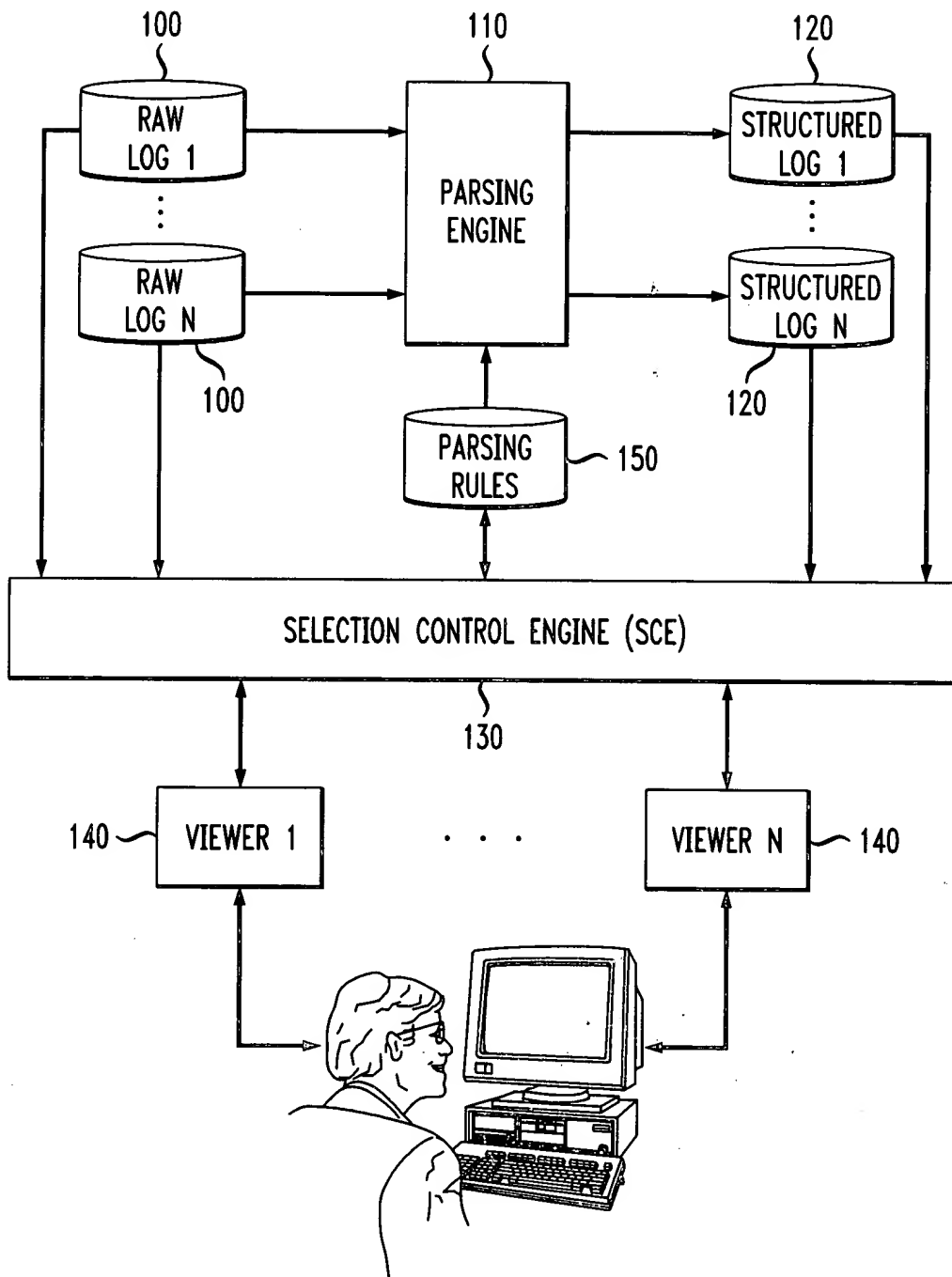


FIG. 2A



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FIG. 2B

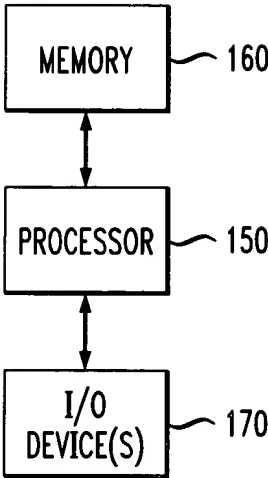
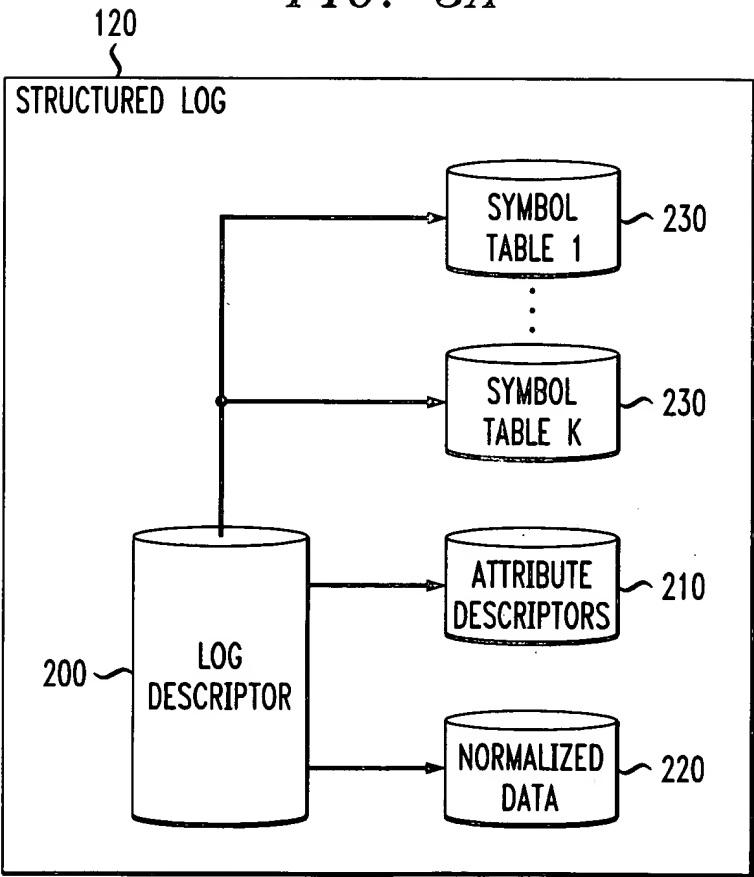


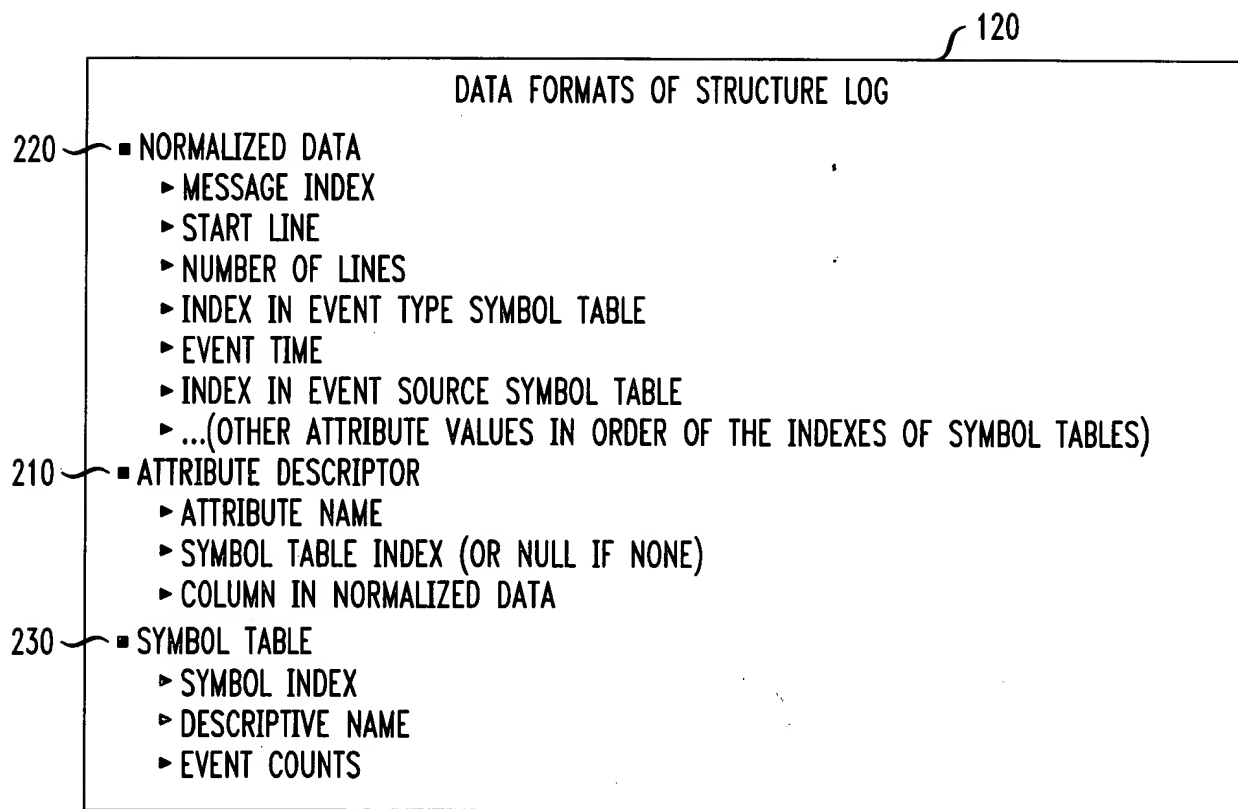
FIG. 3A



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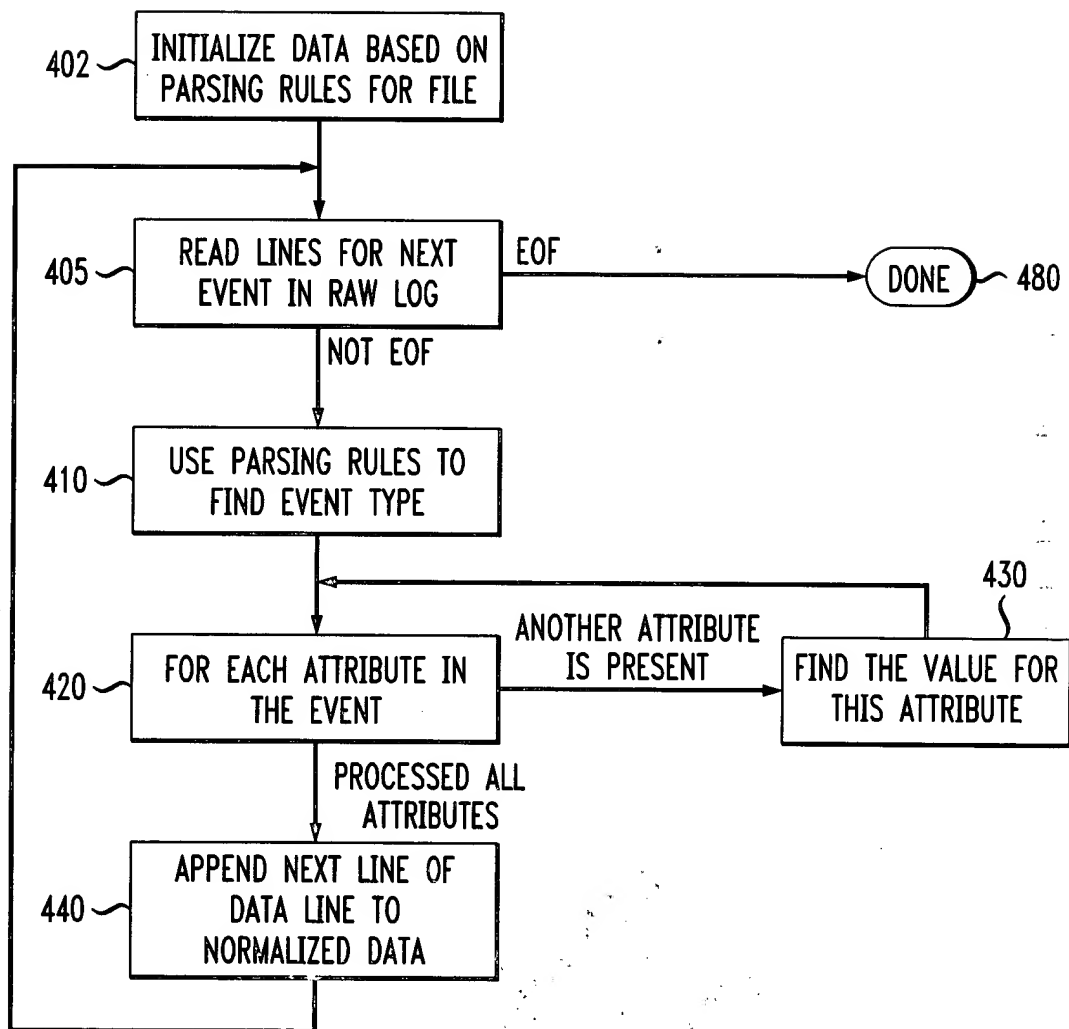


*FIG. 3B*



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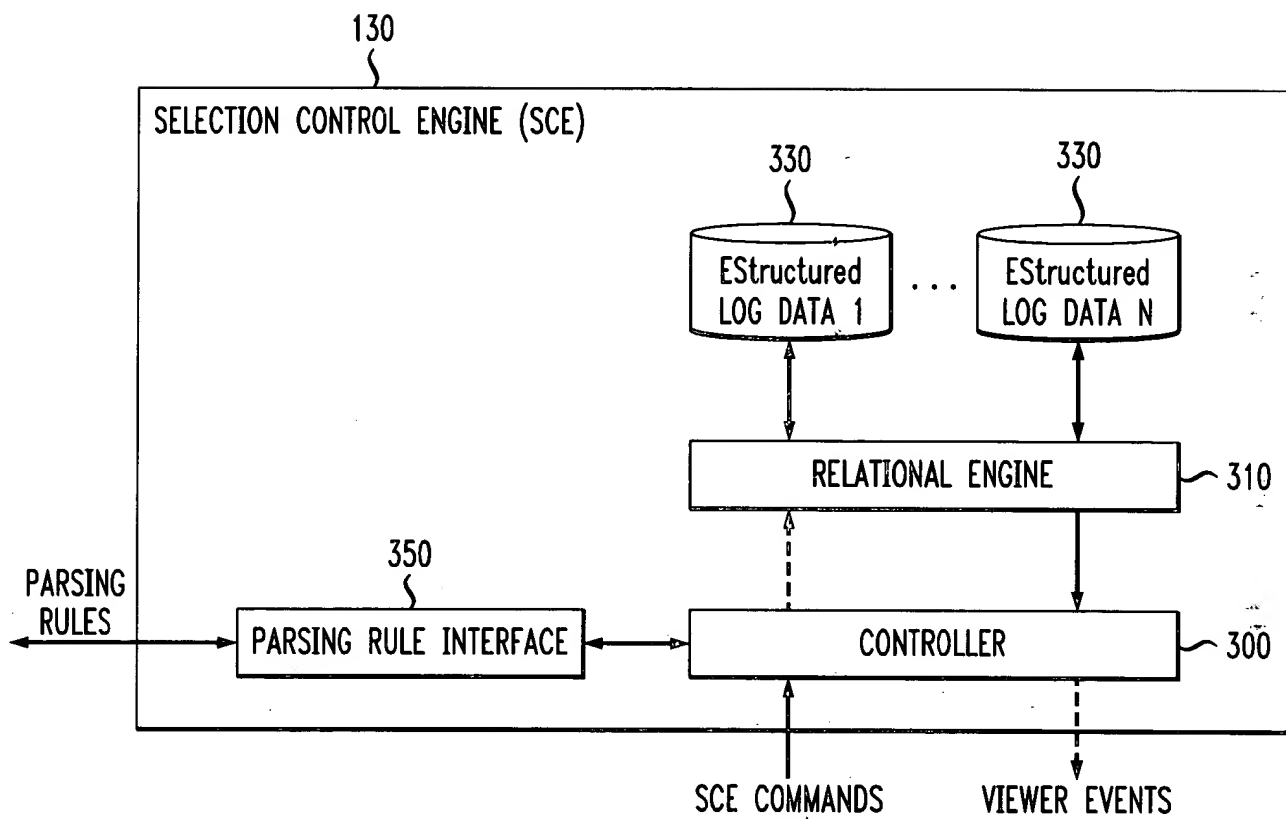
FIG. 4





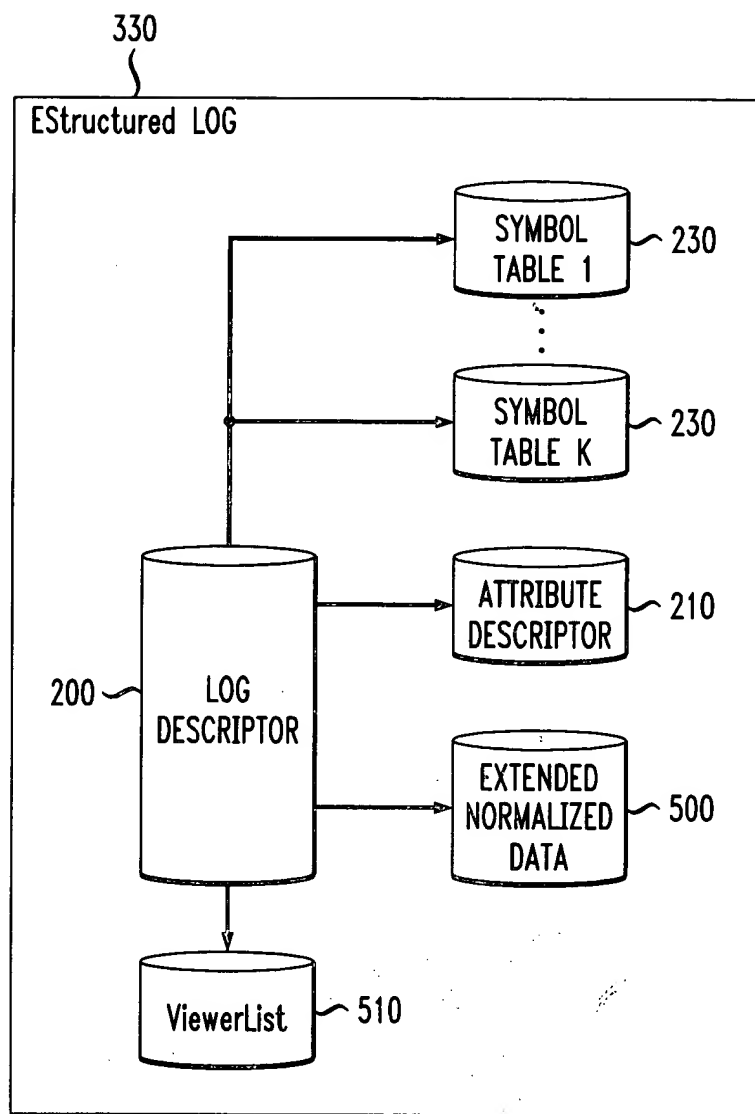
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FIG. 5



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FIG. 6A

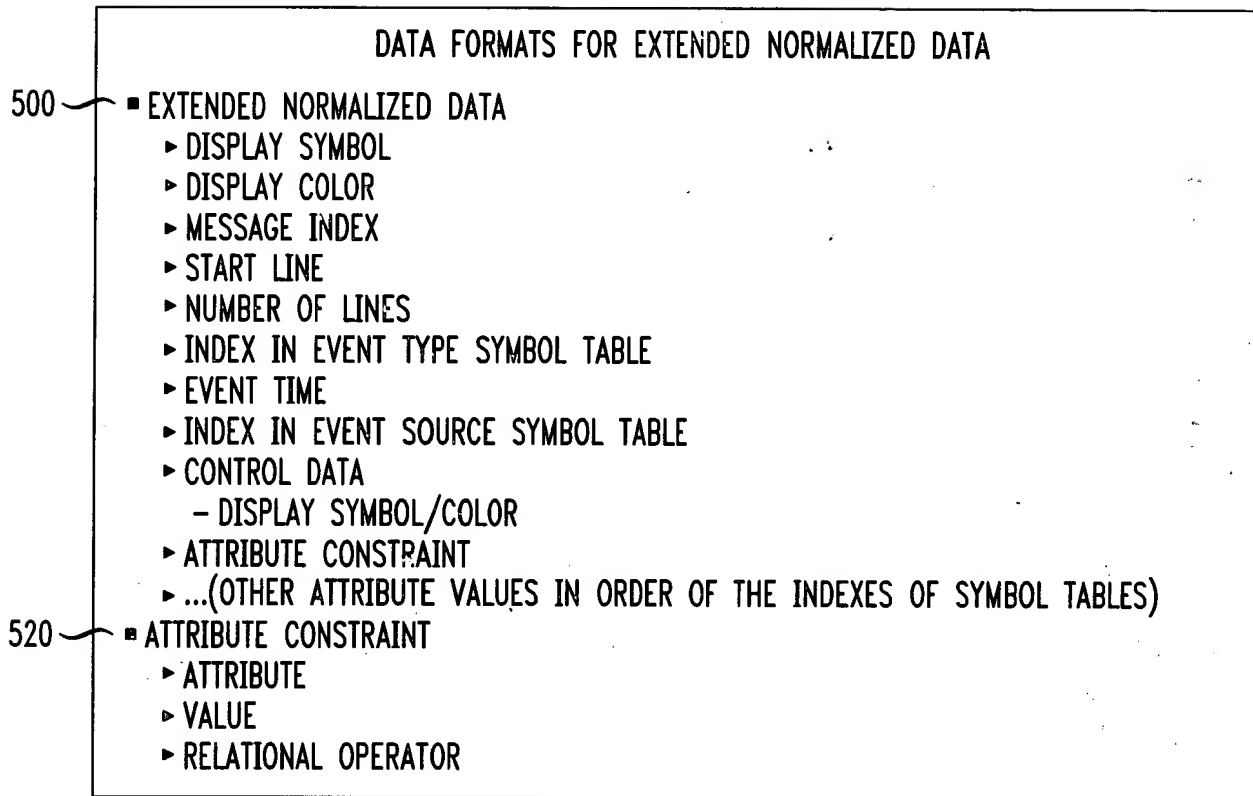


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*FIG. 6B*



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FIG. 7

COMMAND	INPUTS	OUTPUTS	NOTES
CreateELog	FileName	EStructuredLog	(1)
GetAttributeList	EStructuredLog	SetOfAttribute	
GetSymbolTable	Attribute	SetOfSymbolTableEntry	
	EStructuredLog		
GetData	SetOfMsgID	SetOfMessage	
	SetOfAttributeConstraint	SetOfDataRow	
	EStructuredLog	SetOfControlValue	
GetDataSummary	SetOfMsgID	AttributeCount	
	SetOfAttributeConstraint		
	EStructuredLog		
GetControlData	EStrucutredLog	SetOfControlData	
UpdateControlData	ControlData		(1)
	SetOfAttributeConstraint		
	EStructuredLog		
GetParsingRule	MessageID	ParsingRule	
SetParsingRule	NewParsingRule OldParsingRule		
ConstrainELog	SetOfAttributeConstraint		(1)
	EStructuredLog		
UpdateViewer	SetOfViewerID		
CloneELog	EStructuredLog	EStructuredLog	(2)

NOTES

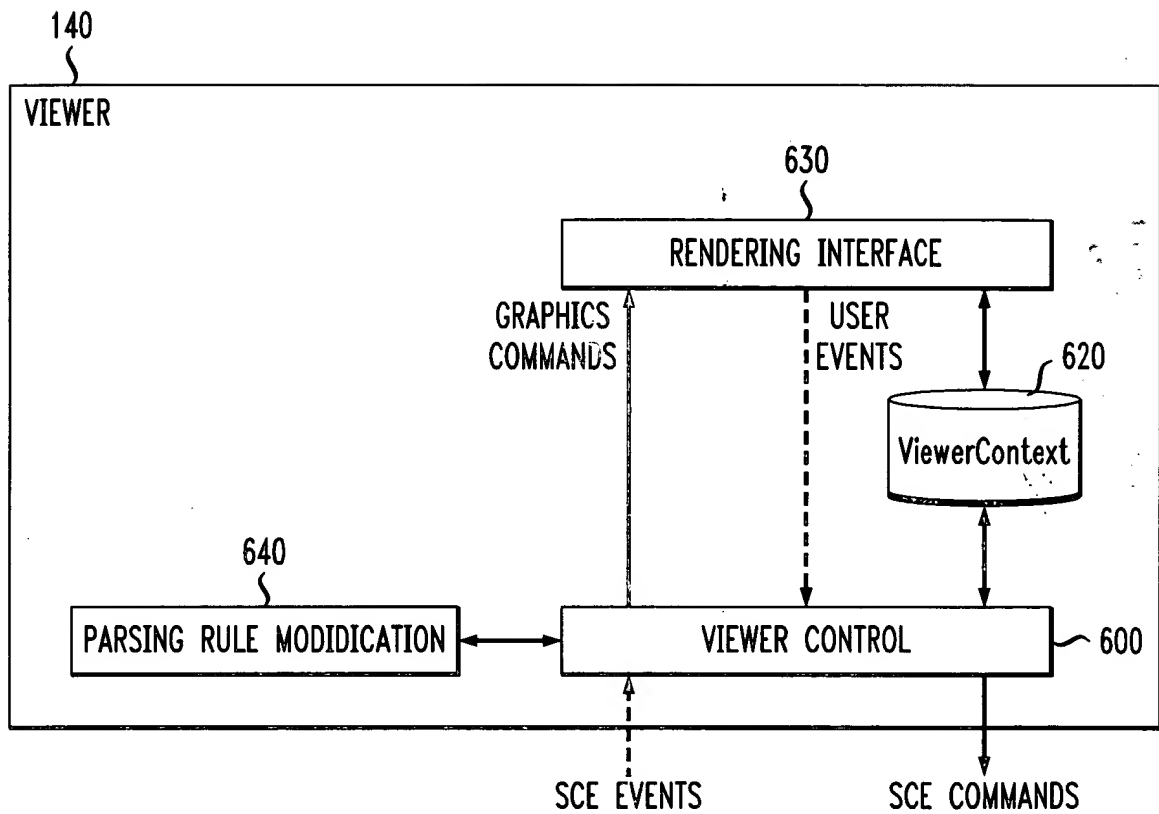
- (1) - UPDATES ALL VIEWERS  
(2) - CREATES A NEW EStructuredLog

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FIG. 8A



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FIG. 8B

METHODS OF GENERIC VIEWER

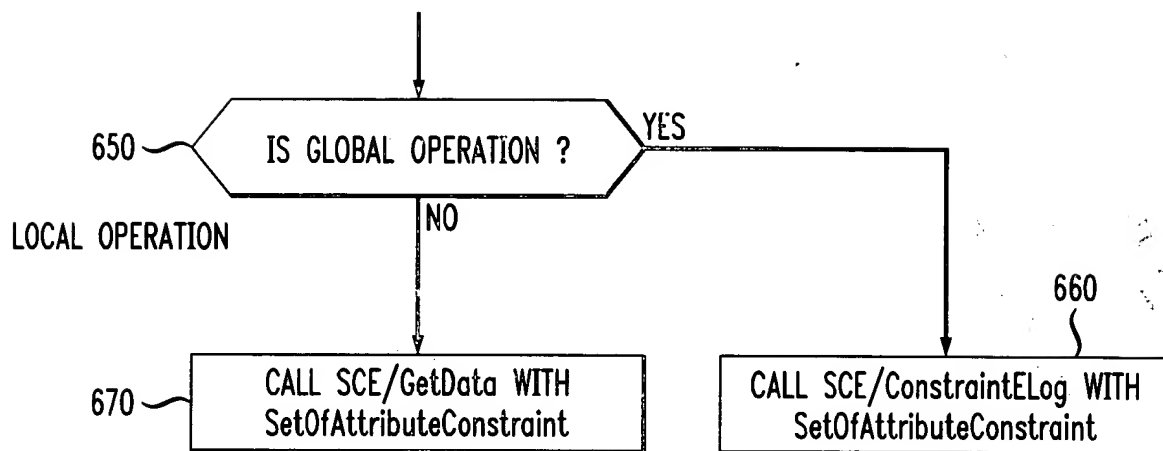
METHOD	INPUT	DESCRIPTION
ConstructView	ELog ViewerContext	DISPLAY INFORMATION IN ELog IN A VIEWER-SPECIFIC WAY WITH VIEWER PROPERTY DESCRIBED IN ViewerContext
SelectFilterData	SetOfAttributeConstraint IsGlobal IsSelect	SELECT OR FILTER A SET OF DATA
GetELogID		GET ELog ID FROM ViewerContext
SetELogID		SET ELog ID
GetViewerID		GET VIEWER ID FROM ViewerContext
SetViewerID		SET VIEWER ID



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*FIG. 8C*

SelectFilterData



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FIG. 9

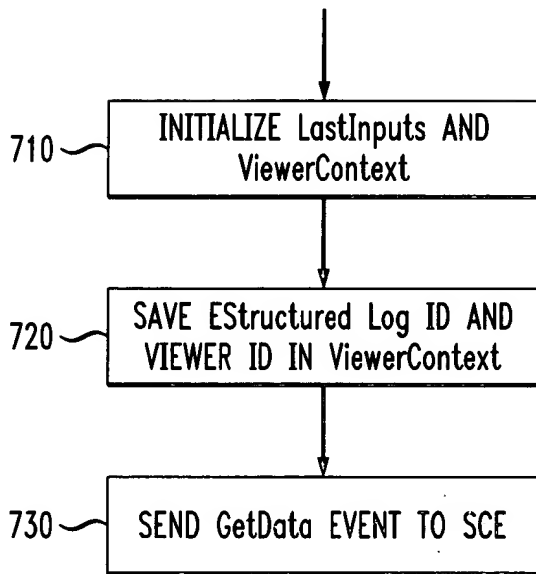
COMMUNICATION EVENTS AMONG SCE, VIEWER AND USER

SOURCE	TARGET	NAME	OCCURRENCE
SCE	Viewer	INITIALIZE	WHEN THE VIEWER IS INITIALIZED
SCE	Viewer	UpdateViewer	WHEN THE EStructuredLog IS UPDATED
Viewer	SCE	ConstraintELog	WHEN A VIEWER PERFORMS A GLOBAL SELECTION/FILTERING OPERATION
Viewer	SCE	GetData	WHEN A VIEWER NEEDS DATA
USER	Viewer	BUTTON	WHEN A VIEWER BUTTON IS PRESSED
USER	Viewer	ITEM	WHEN ITEMS ARE SELECTED (LISTS, PIXELS, MESSAGES, ETC.)



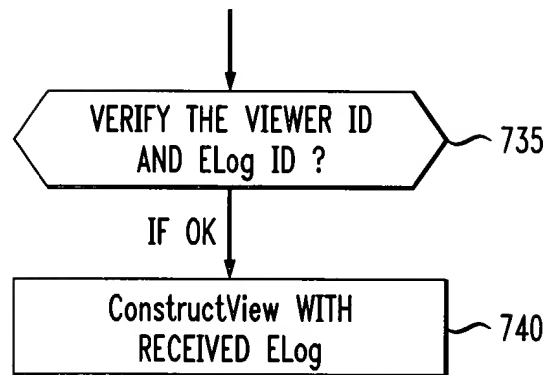
**FIG. 10A**

A VIEWER PROCESS  
WHEN SCE/INITIALIZE  
EVENT IS RECEIVED



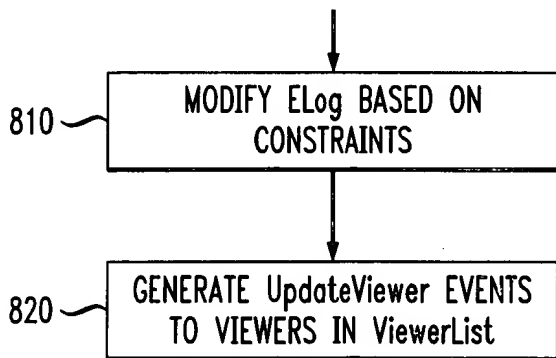
**FIG. 10B**

A VIEWER PROCESS WHEN  
SCE/UpdateViewer  
EVENT IS RECEIVED



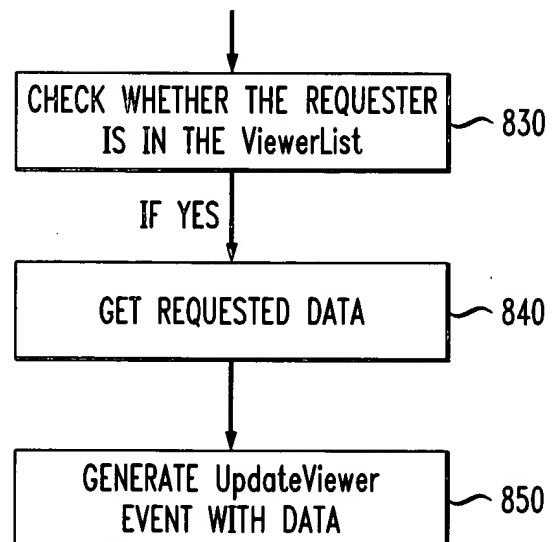
**FIG. 11A**

Viewer/ConstraintELog EVENT



**FIG. 11B**

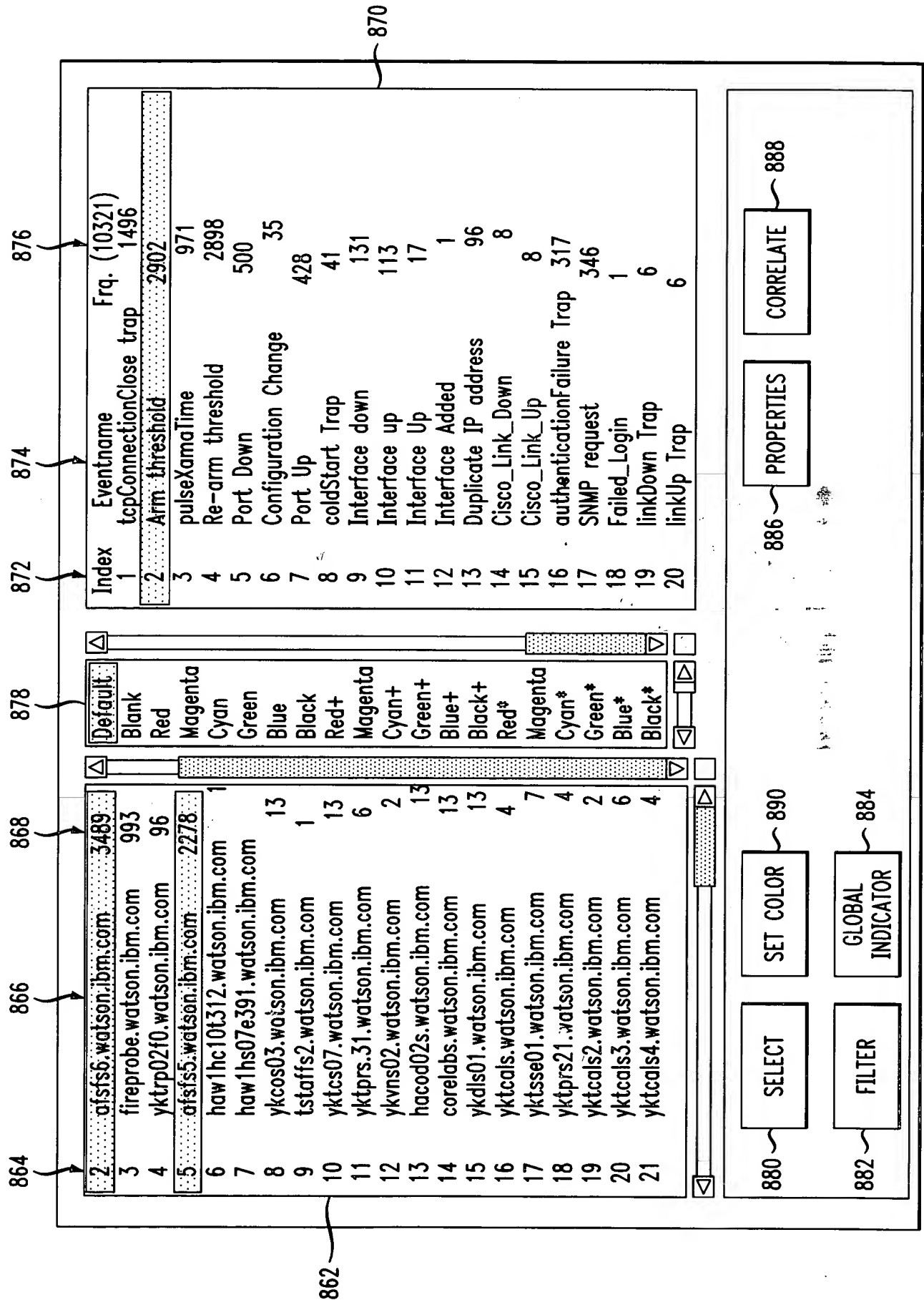
VIEWER/GetData EVENT



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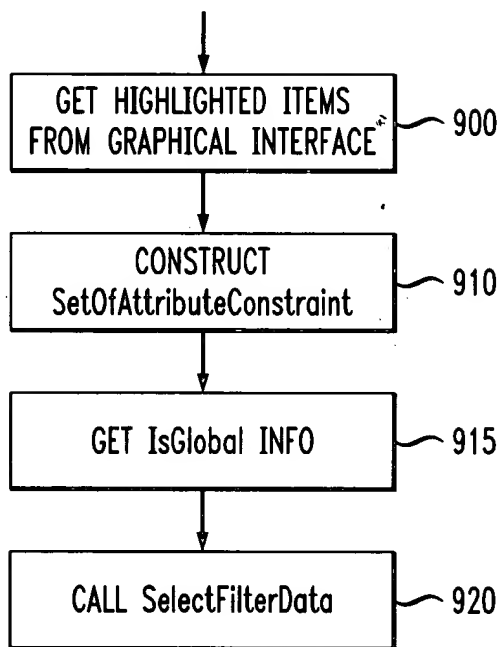
**FIG. 12**





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**FIG. 13**  
USER BUTTON = "SELECT" OR "FILTER"



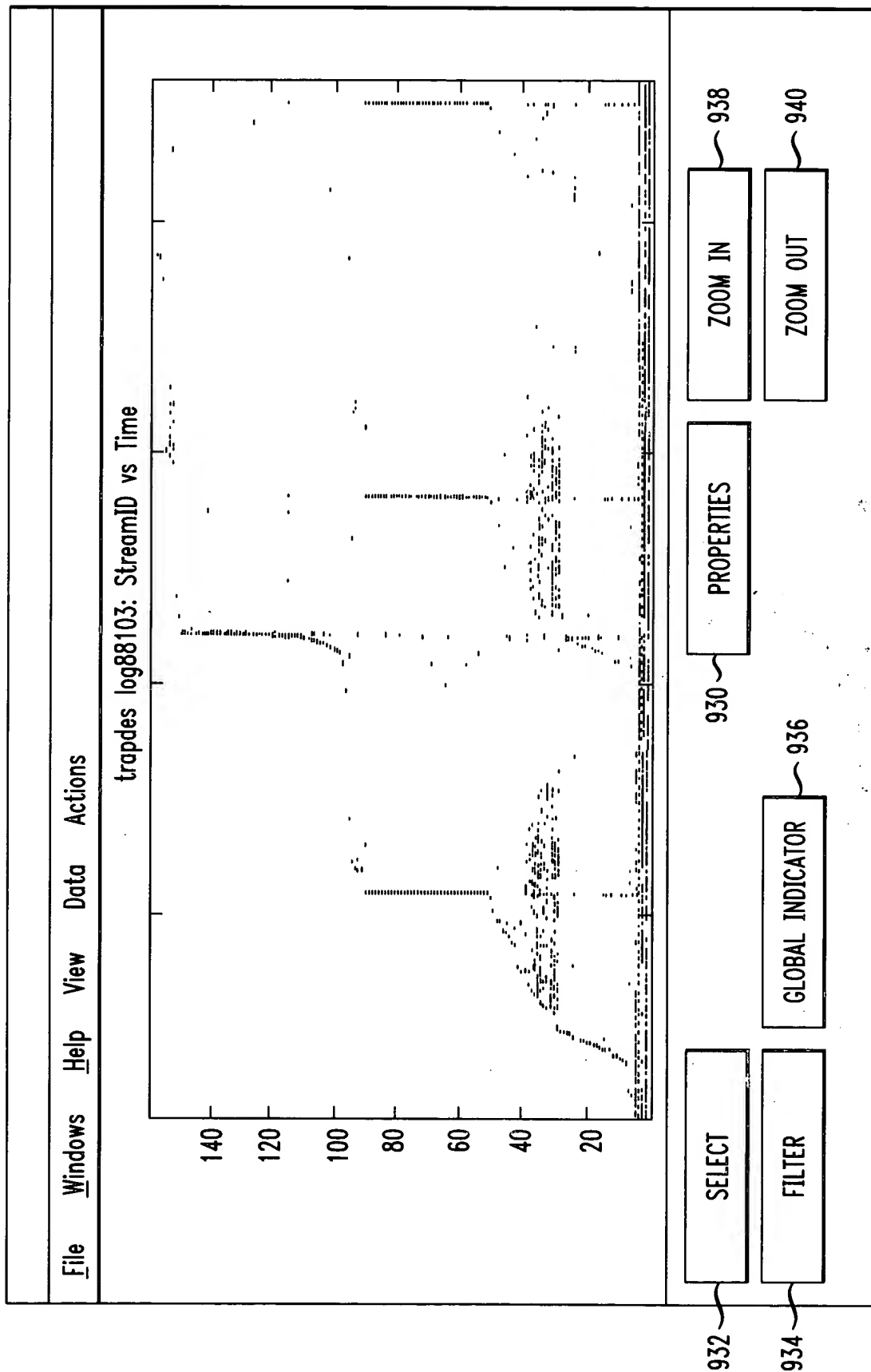
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FIG. 14

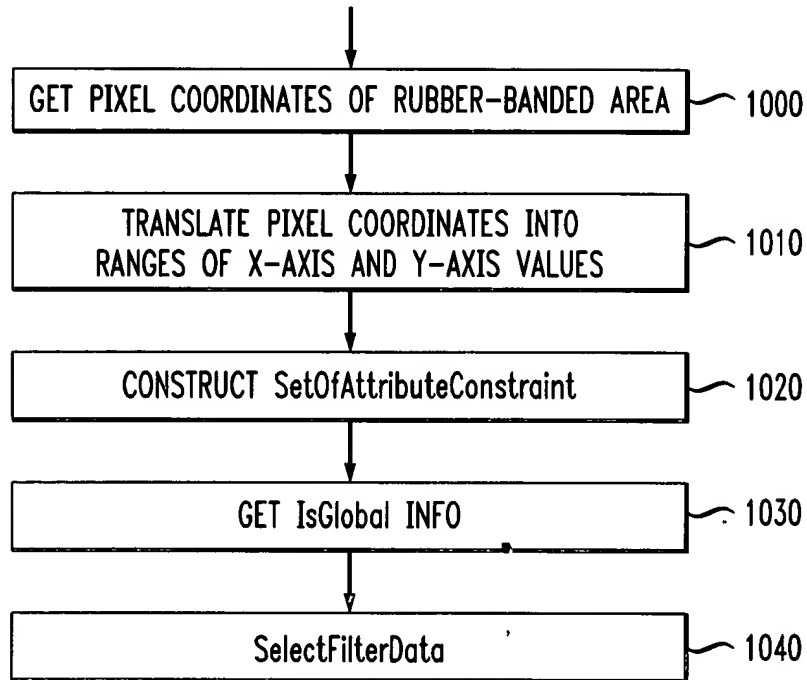




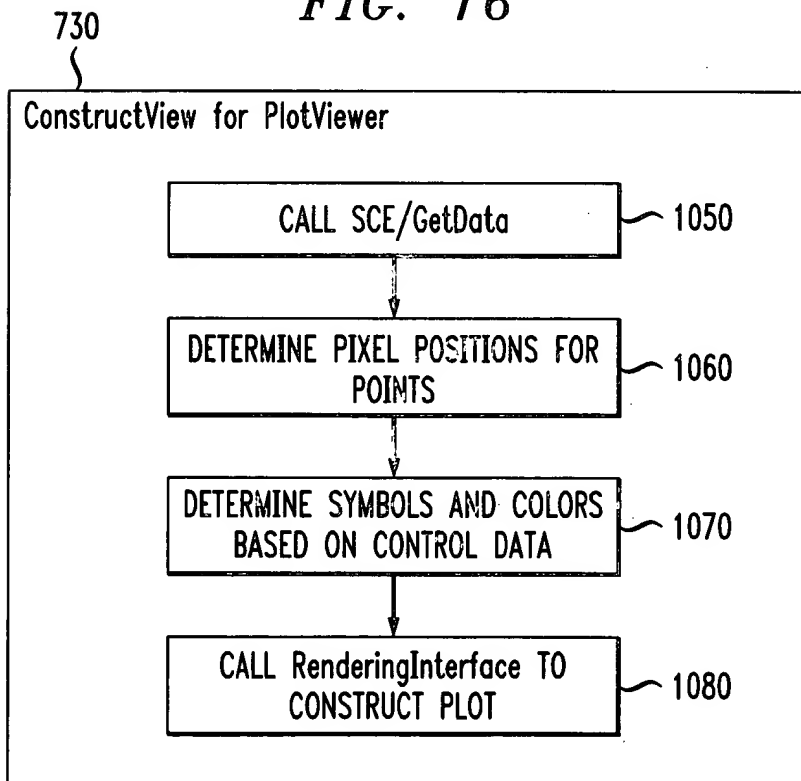
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**FIG. 15**

USER BUTTON = "SELECT" OR "FILTER"



**FIG. 16**

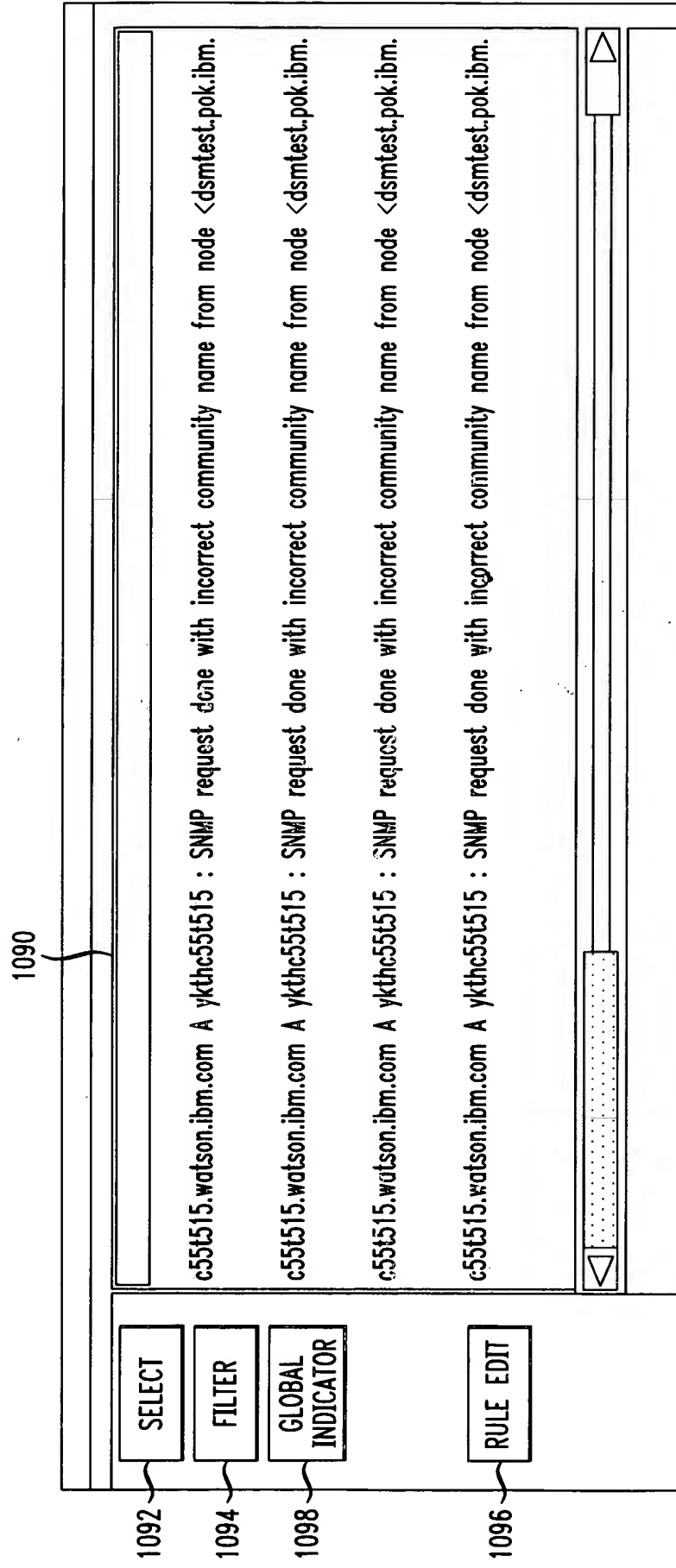


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FIG. 17

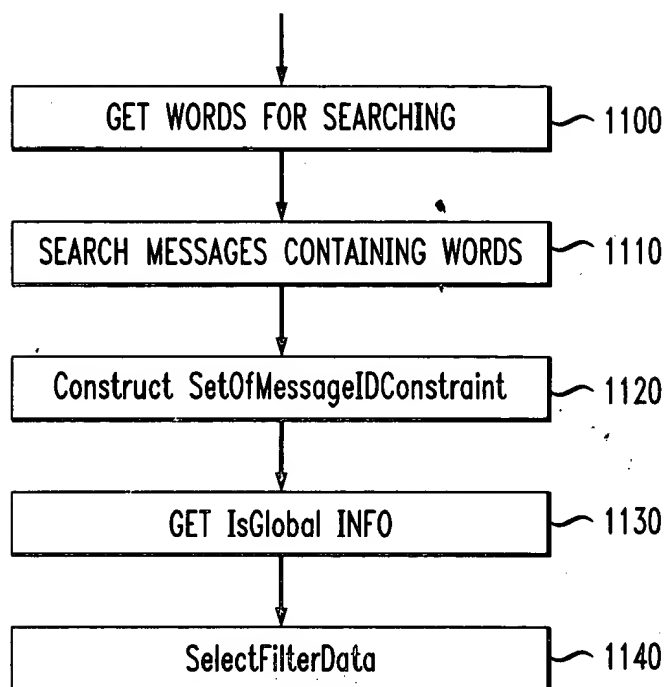




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**FIG. 18**

USER BUTTON = "SELECT" OR "FILTER"

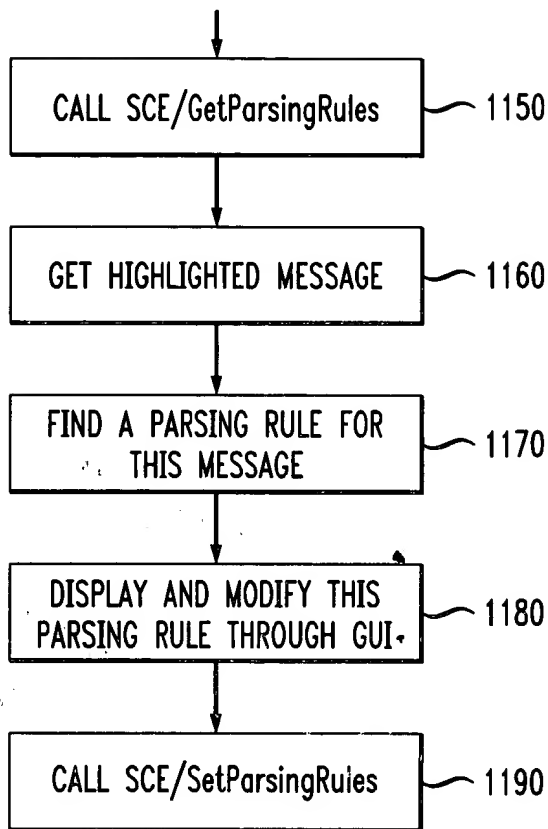


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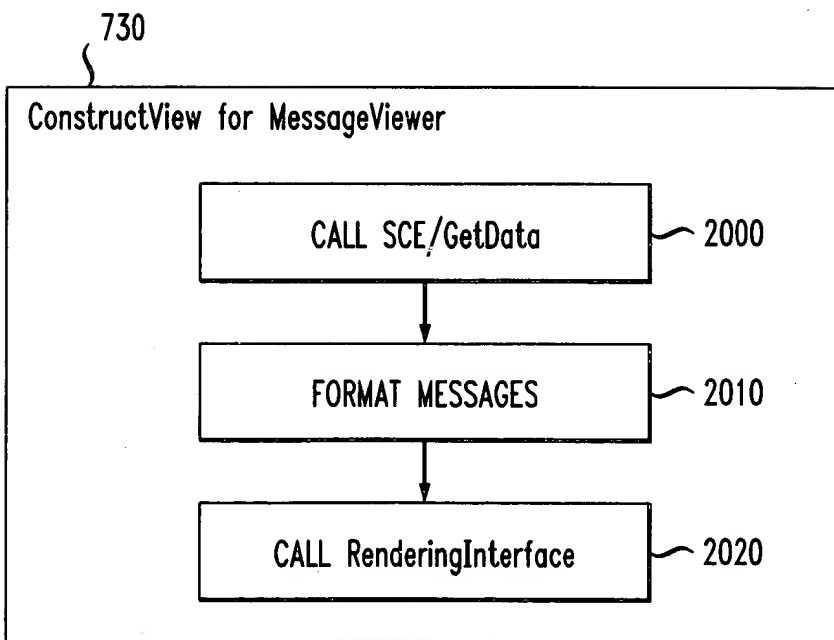


**FIG. 19**

USER BUTTON = "RULE EDITOR"



**FIG. 20**



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